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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/644,819	08/23/2000	Dorian Birsan	CA919990037US1	2470

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HESLIN ROTHENBERG FARLEY & MESITI P.C.
5 COLUMBIA CIRCLE
ALBANY, NY 12203

EXAMINER

LUDWIG, MATTHEW J

ART UNIT	PAPER NUMBER
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2178

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/644,819

Applicant(s)

BIRSAN ET AL.

Examiner

Matthew J. Ludwig

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: Amendment filed 12/22/04.
2. Claims 1-27 are pending in the application. Claims 1, 13, 18, and 23, are independent claims.
3. Claims 1-27 ***remain rejected*** under 35 U.S.C. 103(a) as being unpatentable over Raman.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raman, USPN 5,748,186 filed (10/2/95).**

In reference to independent claim 1, Raman teaches:

The Public methods as well as the position methods provide a similar suggestion of manipulating selected data. The source data taught by Raman provides a reasonable suggestion of read-only data as the retrieved values allow the author detailed access to the document object (compare to "*a template module including a directive to extract and manipulate selected data of a source data model comprising read-only data*"). See column 6, lines 35-67.

Preferred methods which can operate during the rendering of a document, which include public positional, location, navigational, marking event, browsing, rendering, and link methods. Regarding the public methods, a slot is a location associated with a document object to

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store a run time variable. The construct method creates a document object from a list element (compare to *“a template processing module to process said direct command in said template module”*). See column 6, lines 17-45. Because the claim limitations are to be given their broadest reasonable interpretation within the scope of the art, the methods provided by Raman that manipulate the DOM based on templates and rules provide the necessary suggestion of a similar process as the limitations of the claim. Therefore, it would have been obvious to one of ordinary skill in the art to utilize the software methods which can operate during the rendering of a document to allow for similar treatment of the manipulation of elements within the document object to create a marked-up document. Raman fails to explicitly state the utilization of a document object model; however, the reference provides the generation of a description of a source document and a detailed description of a recognizer parsing the character stream into fundamental source elements. The elements are stored in the intermediate high-level data structure. The recognizer uses a lex-based translator to generate a nested list representing the source document. The nested list can be logically shown as a data structure in the form of a hierarchical attributed tree. The tree includes a plurality of nested containers or nodes. Each node or container is known as a document object. Document objects can represent links and forms. Navigational methods associated with objects allow the user to browse through the text. See column 4, lines 45-67 & column 5, lines 10-45. The Examiner believes Raman suggests the generation of a similar document object model and the navigation of said similar document object model to manipulate a source document to facilitate creation of a target data model in multiple modalities. The utilization of the tree structure as taught by Raman would have given

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one of ordinary skill in the art the advantage of navigational methods associated with objects to browse through the text and rendering the objects in a plurality of presentation modalities.

In reference to dependent claim 3, Raman teaches:

Preferred methods which can operate during the rendering of a document include public, positional, location, navigational, marking event, browsing, rendering, and link methods. These methods provide a suggestion of components, which manipulate the document object and navigate said elements within the document object. See column 6, lines 36-56.

In reference to dependent claim 3, Raman teaches:

The software methods taught by Raman provide methods for manipulating the Document Object Model tree. See column 6, lines 17-67.

In reference to dependent claim 4, Raman teaches:

Preferred methods which can operate during the rendering of a document include public, positional, location, navigational, marking event, browsing, rendering, and link methods. These methods provide a suggestion of components, which manipulate the document object and navigate said elements within the document object. See column 6, lines 36-56.

In reference to dependent claim 5, Raman teaches:

Because the claim limitations are to be given their broadest reasonable interpretation within the scope of the art, the methods provided by Raman that manipulate the DOM based on templates and rules provide the necessary suggestion of a similar process as the limitations of the claim. Therefore, it would have been obvious to one of ordinary skill in the art to utilize the software methods which can operate during the rendering of a document to allow for similar

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treatment of the manipulation of elements within the document object to create a marked-up document.

In reference to dependent claim 6, Raman teaches:

The data of a document object can include attributes which describe and type the underlying element of the parsed source document represented by the object. See column 5, lines 20-25. It is unclear to the Examiner what the Applicant is attempting to describe within the limitation of dependent claim 6. The claim states an application development program, said source data model, and said target data model, but fails to clearly state what it is the three separate models are supposed to perform.

In reference to dependent claim 7 and 8, Raman teaches,

Although this specific example of the preferred embodiment is described with reference to HTML, it should be understood that the invention could also be employed utilizing other mark-up conventions, such as the ISO standard general mark-up language SGML. See column 5, lines 50-60. The reference does not explicitly disclose XML, however, the extensible markup language is a derivative of SGML and provides a similar marked up document.

In reference to dependent claim 9 and 10, Raman teaches,

Although this specific example of the preferred embodiment is described with reference to HTML, it should be understood that the invention could also be employed utilizing other mark-up conventions, such as the ISO standard general mark-up language SGML. See column 5, lines 50-60. The reference does not explicitly disclose XML, however, the extensible markup language is a derivative of SGML and provides a similar marked up document.

In reference to dependent claim 11 and 12, Raman teaches,

Although this specific example of the preferred embodiment is described with reference to HTML, it should be understood that the invention could also be employed utilizing other mark-up conventions, such as the ISO standard general mark-up language SGML. See column 5, lines 50-60. The reference does not explicitly disclose XML, however, the extensible markup language is a derivative of SGML and provides a similar marked up document.

In reference to claims 13-17, the claims recite the methods for performing similar functions to those of claims 1-5, respectively, and in further view of the following, are rejected under similar rationale.

In reference to claims 18-27, the claims recite the system comprising computer readable instructions used for performing the methods as claimed in claims 1-12, and in further view of the following, are rejected under similar rationale.

Response to Arguments

6. Applicant's arguments filed 12/22/04 have been fully considered but they are not persuasive.

Applicant argues on pages 2-6 of the amendment that a careful reading of Raman fails to uncover any teaching or suggestion of a component to generate a Document Object Model tree for navigating the template module to manipulate the source data model. Furthermore, Applicant states Raman does not teach or discuss generating a DOM tree for any purpose. Finally, the Applicant provides detailed instructions on what exactly a DOM tree is and the generic functions of the DOM. One skilled in the art understands that a Document Object Model is a specification

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for how data or objects are to be represented in a Web page. The DOM defines attributes associated with each object in the Web page, and how the objects and the associated attributes may be manipulated. The contents of the DOM may be logically structured like a tree.

The Examiner concedes there is no mention of the word Document Object Model or DOM throughout the primary reference. However, the Examiner believes on of ordinary skill in the art would conclude, after perusing the entire primary reference, there is a suggestion of a DOM in the language of the reference. More importantly, the employment of the suggested DOM within the primary reference is vital in the rendering of the source document in a plurality of presentation modalities. Raman describes a recognizer, which parses the character stream into fundamental source elements. The elements are stored in the intermediate high-level data structure. The recognizer uses a lax-based translator to generate a nested list representing the source document. The nested list can be logically shown as a data structure in the form of a hierarchical attributed tree. The tree includes a plurality of nested containers or nodes. Each node or container is known as a document object. Document objects can represent links and forms. Navigational methods associated with objects allow the user to browse through the text. See column 4, lines 45-67 & column 5, lines 10-45. The Examiner believes Raman suggests the generation of a similar document object model and the navigation of said similar document object model to manipulate a source document to facilitate creation of a target data model in multiple presentation modalities. The unclear distinction between the template module, the DOM, and the creation of the target data model, within the limitations of independent claim 1 fail to preclude the Examiner from utilizing the object model taught by Raman and the access to

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the object model by the user to create and provide a target data model in multiple presentation modalities.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

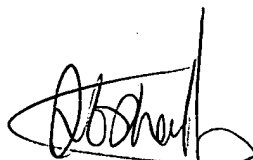
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Ludwig whose telephone number is 571-272-4127. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on 571-272-4124. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML
April 13, 2005



STEPHEN HONG
SUPERVISORY PATENT EXAMINER